Contents of *Livestock Production Science* Volume 29

VOL. 29 NO. 1 — SEPTEMBER 1991

Physiological attributes of male and juvenile cattle differing in genetic merit for milk yield: a review
J.A. Woolliams (Roslin, UK) and P. Løvendahl (Tjele, Denmark) 1
Genetic parameters for beef and milk production in Dutch Red and White dual-purpose cattle and their implications for a breeding program
A.E. van Veldhuizen, H. Bekman, J.K. Oldenbroek (Zeist, Netherlands), J.H.J. van der Werf (Wageningen, Netherlands), D.S. Koorn (Arnhem, Netherlands) and J.S. Muller (Wageningen, Netherlands) 17
Variations in milk output and milk protein content in response to the level of energy supply to the dairy cow: a review
J.B. Coulon and B. Rémond (St-Genès-Champanelle, France) 31
Genetic parameters for feed intake and feed efficiency in growing dairy heifers
S. Korver, E.A.M. van Eekelen, H. Vos, G.J. Nieuwhof and J.A.M. van Arendonk (Wageningen, Netherlands) 49
Assessment of optimal temperature for performance and chemical body composition of growing pigs
D. Rinaldo and J. Le Dividich (St. Gilles, France) 61
Estimation of genetic parameters and breeding values for conformation traits for foals and mares in the Trakehner population and their practical implications
R. Preisinger, J. Wilkens and E. Kalm (Kiel, Germany) 77

Short Communication
Effect of active immunization against androstenedione on reproductive and productive performance of dairy goats
M. Avdi, T. Alifakiotis (Thessaloniki, Greece) and M.A. Driancourt (Monnaie, France) 87

VOL. 29 NOS. 2/3 — OCTOBER 1991

Methods for predicting response to selection in small populations under additive genetic models: a review
E. Verrier (Paris, France), J.J. Colleau and J.L. Foulley (Jouy-en-Josas, France) 93
A review of empirical and mechanistic models of lactational performance by the dairy cow
D.E. Beever, A.J. Rook, J. France, M.S. Dhanoa and M. Gill (Maidenhead, UK) 115
Estimation of economic values for dairy cattle breeding goals: bias due to sub-optimal management policies
J.C.M. Dekkers (Guelph, Ont., Canada) 131

Effect of dietary fat level on feed intake, growth, plasma metabolites and hormones of calves fed dry or liquid diets
J. Doppenberg and D.L. Palmquist (Wooster, OH, USA) 151
Influence of degradability of supplemental protein and time post-partum in early lactation dairy cows. 2. Kinetics of rumen ingesta turnover and whole tract digestibility
P.H. Robinson and J.J. Kennelly (Edmonton, Alta., Canada) 167
Genetic variation in testicular diameter in a random-breeding Merino flock
I.W. Purvis (Nedlands, W.A., Australia), L.R. Piper, T.N. Edey (Armidale, N.S.W., Australia) and R.J. Kilgour (Trangie, N.S.W., Australia) 181
Effects of recombinant porcine somatotropin on growth, feed intake and feed efficiency curves from 60 to 140 kg of pigs of three genotypes and two sexes
J.A. de Boer and E. Kanis (Wageningen, Netherlands) 197
Methodological studies with the mobile nylon bag technqiue to determine protein and energy digestibilities in feedstuffs for pigs
C.F.M. de Lange (Wageningen, Netherlands), W.C. Sauer (Edmonton, Alta., Canada), L.A. den Hartog (Rosmalen, Netherlands) and J. Huisman (Wageningen, Netherlands) 213
The effect of dietary level of fat on amino acid digestibilities in soybean meal and canola meal and on rate of passage in growing pigs
M. Imbeah and W.C. Sauer (Edmonton, Alta., Canada) 227
Influence of daily intermittent draught on the health status of weaned pigs
C.J.M. Scheepens (Utrecht, Netherlands), M.J.M. Tielen (Utrecht and Boxtel, Netherlands) and M.J.C. Hessing (Boxtel, Netherlands) 241

Book Reviews
Livestock genetic resources 255

Publications of Interest 258

VOL. 29 NO. 4 **DECEMBER 1991**

Genetic aspects of feed intake and efficiency in lactating dairy heifers
J.A.M. van Arendonk, G.J. Nieuwhof, H. Vos and S. Korver (Wageningen, Netherlands) 263
Results of selection for yearling or 18-month weight in Angus and Hereford cattle
R.L. Baker, C.A. Morris, D.L. Johnson, J.C. Hunter and S.M. Hickey (Hamilton, New Zealand) 277
Genetic parameters for testosterone response to GnRH stimulation and scrotal circumference in tropical beef bulls
M.J. Mackinnon, N.J. Corbet (Rockhampton Mail Centre, Qld., Australia), K. Meyer (Armidale, N.S.W., Australia), H.M. Burrow, R.P. Bryan and D.J.S. Hetzel (Rockhampton Mail Centre, Qld., Australia) 297
Comparison of the effects of urea and ammonia treatments of wheat straw on intake, digestibility and performance of sheep
K. Kraiem (Mograne, Tunisia), H. Abdouli (Mateur, Tunisia) and R.D. Goodrich (St. Paul, MN, USA) 311
Prediction of carcass merit from live body measurements in rabbits of four breed-types
S.D. Lukefahr and C.E. Ozimba (Huntsville, AL, USA) 323

A note on prediction of response to artificial selection with indices of unequal information
M. Perez-Enciso and M.A. Toro (Madrid, Spain) 335

EAAP News
E.A.A.P. Annual Meetings 342
E.A.A.P Study Commissions Reports 345
Awards 1991 356
Animal genetic resources: FAO policy 360

Author Index 367